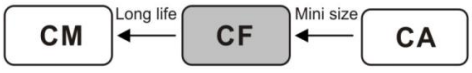
CF Series

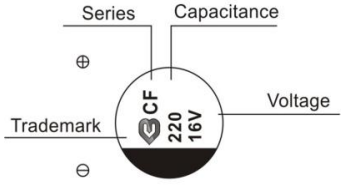
- Ultra low impedance, high ripple, miniaturized
- Load life of 3000 hours at 105℃
- RoHS Compliant

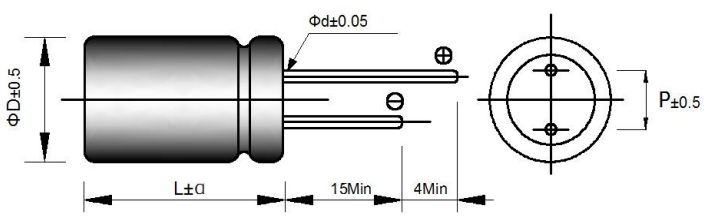


◆ 规格表 Specifications

项目Items	特性参数Characteristics		
使用温度范围 Category Temperture Range	-55 ~ +105℃		
额定工作电压范围 Rated Voltage Range	2.5 ~ 25V		
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
漏电流 Leakage Current	施加额定工作电压2分钟后读数，小于或等于规格值 (20℃) I≤0.15CV 或120μA（取大值）（The bigger）（The bigger） After 2 minutes applied for rated voltage at 20℃, less than or equal to the specified value.		
损耗角正切值tanδ Dissipation Factor	Rated voltage (V)	2.5～25	(at 20℃,120Hz)
	tanδ (Max.)	0.10	
温度特性 Low Temperture Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≤1.25	(100KHz)
	Z(-55℃)/Z(+20℃)	≤1.25	
耐久性 Endurence	105℃施加额定工作电压3000小时，恢复到20℃后，产品性能应满足以下要求 The specifications listed below shall be met when thecapacitors are restored to 20°C after the rated voltage is applied for 3000 hours at 105℃.		
	Appearance	No significant damage	
	Capacitance change	≦±20% of the initial value	
	D.F.(tanδ)	≦150% of the specified value	
	ESR	≦150% of the specified value	
	Leakage current	≤The specified value	
耐湿负荷特性 Damp Heat (Steady State)	在60℃ 温度，湿度90%~95%RH的环境中，施加额定电压1000小时后，恢复到20℃后，产品性能应满足以下要求 The specifications listed below shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 60℃, 90%～ 95% RH.		
	Appearance	No significant damage	
	Capacitance change	≦±20% of the initial value	
	D.F.(tanδ)	≦150% of the specified value	
	ESR	≦150% of the specified value	
	Leakage current	≤The specified value	
浪涌电压特性 (Surge Voltage)	浪涌电压=额定电压* 1.15(V) Surge Voltage=Rated voltage * 1.15(V) 在105℃环境中，按充电30秒，放电5分30秒，连续施加浪涌电压1000次(Rc=1kΩ)，待恢复后测试，应满足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105℃ for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds		
	Appearance	No significant damage	
	Capacitance change	≦±20% of the initial value	
	D.F.(tanδ)	≦150% of the specified value	
	ESR	≦150% of the specified value	
	Leakage current	≤The specified value	

◆ 外形图Dimensions (mm)





ΦD	5	6.3	8	10
P	2	2.5	3.5	5
Φd	0.5	0.5	0.6	0.6
α	L<16mm：1.0			
	L≧16mm：2.0			

CF Series

◆ 尺寸与最大纹波电流一览表 Standard Ratings

Rated voltage (V)	Rated capacitance(uF)	Case size ΦD*L(mm)	ESR(mΩ) at 20℃,100 KHz	Rated ripple carrent (mArms/105℃/100kHz)
2.5 (0B)	330	5*7	18	2690
	470	5*7	18	2690
	560	6.3*8	18	2690
	680	6.3*8	18	2690
4 (0G)	220	5*7	18	2690
	330	5*7	18	2690
	470	6.3*8	18	2690
	560	6.3*8	18	2690
6.3 (0J)	220	5*7	18	2500
	330	5*7	18	2500
	330	6.3*8	16	2900
	470	6.3*8	16	2900
	560	6.3*8	16	3100
	680	6.3*8	16	3100
10 (1A)	100	5*7	18	2690
	150	5*7	18	2690
	270	6.3*8	16	4100
	330	6.3*8	16	4100
16 (1C)	100	5*7	20	2690
	100	6.3*8	18	2900
	220	6.3*8	16	2900
25 (1E)	22	5*7	45	2670
	33	5*7	40	2670
	33	6.3*8	40	2900
	47	6.3*8	40	2900

◆ 纹波电流补正系数 Rated Ripple Current Coefficient

频率Frequency(Hz)	120Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz	100kHz≤f<500kHz
系数 Coefficient	0.05	0.30	0.70	1.00

CF Series

◆ 尺寸与最大纹波电流一览表Standard Ratings

Rated voltage (V)	Rated capacitance(uF)	Case size ΦD*L(mm)	ESR(mΩ) at 20℃,100 KHz	Rated ripple current (mArms/105℃/100kHz)
2.5 (0B)	560	8*8	15	5700
	680	8*8	12	5700
	820	8*8	12	5700
	1000	8*8	12	5700
	1200	8*8	11	5700
	1500	8*8	11	5700
4 (0G)	560	8*8	12	5700
	680	8*8	12	5700
	820	8*8	12	5700
6.3 (0J)	330	8*8	17	5700
	390	8*8	15	5700
	470	8*8	15	5700
	820	8*8	12	5700
	1000	8*8	14	5700
10 (1A)	100	8*8	17	5300
	180	8*8	15	5300
	220	8*8	15	5300
	680	8*8	13	5300
16 (1C)	100	8*8	16	5000
	180	8*8	14	5000
	220	8*8	14	5000
	270	8*8	12	5000
25 (1E)	22	8*8	45	4500
	33	8*8	40	4500
	47	8*8	40	4500
	100	8*8	40	4500

◆ 纹波电流补正系数 Rated Ripple Current Coefficient

频率Frequency(Hz)	120Hz≤f＜1kHz	1kHz≤f＜10kHz	10kHz≤f＜100kHz	100kHz≤f＜500kHz
系数 Coefficient	0.05	0.30	0.70	1.00

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